

# Ground-level Ozone Fact Sheet



#### What is it?

Ozone is a colorless gas that is made up of three atoms of oxygen. It reacts with other pollutants to form smog (which is usually invisible in South Carolina).

#### Where can ozone be found?

There are two different locations in the atmosphere where ozone is located. Ozone can be found in the **stratosphere** (up high) where it protects us from damaging ultraviolet (UV) radiation. This is called "good" ozone.

Ground-level Ozone is located below the stratosphere, in the troposphere which is the air we breathe. At this location (near by) ozone is a harmful air pollutant. Ground-level ozone is the "bad" ozone. Remember, "good up high, bad near by."

## Where do the pollutants come from that form "bad" ozone?

- Motor vehicle exhaust
- Air emissions from industry
- · Gasoline vapors
- Chemical solvents
- · These chemicals react with strong sunlight and cause harmful groundlevel ozone to form in the air we breathe.

#### What are the health effects of bad ozone?

- · Can worsen chronic bronchitis and asthma
- Can cause chest pains, shortness of breath, wheezing, coughing, and nausea.
- Makes it harder for children, sick people, and even healthy people to breathe.
- · Repeated exposure to high levels of ozone pollution may cause permanent lung damage

## What can you do to help decrease "bad" ozone levels on Ozone Action Days?

- Carpool
- Walk
- Bike
- Keep cars well tuned and maintained
- Try not to spill gasoline when filling up your car or gasoline-powered lawn equipment
  In the summer, fill gas tanks in the cooler evening hours, after 6:00 pm, when vapors won't have time to react with sunlight to form ground-level ozone.
- Conserve electricity

## What can you do to protect yourself from "bad" ozone?

- During Ozone Season, play outside in the mornings before it gets too hot.
- Don't play outside for too long at a time during the hottest times of the day.



